• COLORADO RIVER •

AQUEDUCT NEWS

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

VOLUME XXVI JANUARY, 1959 NUMBER 1

District Board Officers Unanimously Re-elected

Joseph Jensen was unanimously re-elected Chairman of the Board of Directors of the Metropolitan Water District at a meeting of the Board on January 13. This will be Mr. Jensen's sixth consecutive term as Chairman of the Board.

Warren W. Butler was re-elected to serve a sixth term as Vice Chairman, and Fred A. Heilbron was re-elected to his fifth term as Secretary of the Board of Directors. Each officer was elected for a two-year term.

At its meeting on January 27, the Board named seven Directors as members of the Executive Committee, which at a previous meeting had been enlarged from five to seven members.

In expanding the membership of the Executive Committee, the Board provided that three of the members should continue to be the three Board officers. Now serving as members of the Board's policy committee are Chairman Jensen, Vice Chairman Butler, Secretary Heilbron, and Directors A. H. Allen, Irwin E. Farrar, Floyd E. Fischer and W. C. Farquhar.

At the time the Board voted to expand the Executive Committee from five to seven members, it named a special committee to nominate the other four members. This committee recommended that Directors Allen and Farrar continue to serve on the Executive Committee and that Directors Fischer and Farquhar be elected as the additional two members.

Chairman Jensen was first appointed to the Board in August of 1940 as one of the Los Angeles representatives and he served as a Board member until February of 1944 when he resigned. He was re-appointed in March of 1946 and elected Chairman in 1949 after serving the preceding term as Vice Chairman. He also represents the Metropolitan Water District on the Colorado River Board of California.

Mr. Jensen was formerly Assistant

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Shown above is work under way on the final section of the Lower Feeder near La Habra in northwest Orange County. This contract is held by Morrison-Knudsen Company, Inc. and Macco Corp. and has a completion date of March 31, 1959. The pipe is 97-inch welded steel pipe and the wheel-like structures are protective cages for the welders to prevent injury in case of a slide or cave-in.

$45 Million for 1959 Aqueduct Work

The Metropolitan Water District, during 1959, will invest $45,000,000 in new construction work to bring additional Colorado River water to the coastal plain of Southern California, it was announced this month by Robert B. Diemer, General Manager and Chief Engineer of the District.

"By the end of 1958 the Metropolitan Water District had invested $143,000,000 in an expansion program started in 1952," Mr. Diemer said. "$47,000,000 of this was invested in 1958. The entire program, which is scheduled for completion in 1960, will call for a total investment of approximately $200,000,000."

Mr. Diemer said that the expansion program is designed to bring the District's Colorado River Aqueduct and its distribution system to the full ultimate capacity of 1,212,000 acre-feet annually.

He pointed out that when the Colorado River Aqueduct was completed in its initial development in 1941, provisions had been made for the future expansion of the Aqueduct when the need for additional water warranted such expansion.

"When it became evident that Southern California would soon need the full capacity of the Aqueduct, the District

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General Manager Diemer Addresses L.A. Electric Club

"During the next ten years there will be sufficient capacity in the Colorado River Aqueduct to bring in large quantities of Colorado River water to help replenish dangerously depleted underground water basins on the coastal plain of Southern California," Robert B. Diemer, General Manager and Chief Engineer of the Metropolitan Water District, stated on January 12 before a noon meeting of the Los Angeles Electric Club in the Biltmore Hotel.

Mr. Diemer pointed out that the Aqueduct is now operating at about one-half of its ultimate capacity and said that when the expansion program now being carried forward by the District is completed early in 1960, the Aqueduct will be capable of delivering more than one billion gallons of water a day.

"Extensive programs for the replenishment of underground water basins with Colorado River water are now under way in Los Angeles and Orange counties, and steps are being taken to extend this replenishment program in Los Angeles County," Mr. Diemer said.

He pointed out that Southern California had been slow to realize that something should be done to save the underground basins despite urging by Metropolitan Water District officials as far back as 1931.

"A quarter of a century passed before the cities and agencies in control of these underground basins could be aroused to doing very much in the way of restoring the depleted basins," Mr. Diemer declared.

"There was sufficient capactiy in the Aqueduct as initially constructed to have prevented this depletion. However, until recently the local agencies within the boundaries of the Metropolitan Water District did not choose to cut down their heavy drafts upon the underground basins nor did they choose to purchase large additional supplies of Colorado River water to help restore the basins," he stated.

Mr. Diemer stressed the necessity of pressing forward with the development of surplus waters in the northern part of the State. He said that one of the essentials of statewide water development is a Constitutional Amendment that will assure the areas of origin and the areas of deficiency a firm right to water that may be allocated to them for their respective use."

"The Colorado River Aqueduct expansion program, set under way in 1952 and scheduled for completion in 1960, falls into six general categories," Mr. Diemer declared. He listed the categories as:

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DIRECTOR LUTHER C. ANDERSON
5 Years on District Board

Director Luther C. Anderson, one of the Los Angeles representatives on the Metropolitan Water District Board of Directors, this month received his 5-year pin for service on the Board.

Mr. Anderson is a graduate of the University of Wisconsin and a veteran of World War I. He is Chairman of the Board of the Sutter Basin Corporation, Ltd., and is an investment counselor with the Seeley W. Mudd Foundation. He was a member of the Los Angeles City Employees Retirement System from May 6, 1940, up to the time of his appointment as a District Director.

On the District Board, Mr. Anderson is a member of the Finance and Insurance Committee and of the Water Problems Committee.

For the RECORD

(The following items are noted from the report of General Manager and Chief Engineer Robert B. Diemer, filed January, 1959, covering District operations for December, 1958.)

Colorado River—The water surface of Lake Mead dropped 3.69 feet to elevation 1185.91 feet above sea level and usable storage decreased 899,000 acre-feet to 21,981,000 on December 31, 1958. Average discharge for the month at Hoover Dam was 14,600 cfs.

Pumping and Power—Hayfield pumping plant delivered 41,940 arce-feet of Colorado River water for distribution during December. Pumping was on a 4½ pump basis, except for a 4 minute outage on December 1, until 4:30 a.m. December 16, when a full shutdown of the system started to allow for construction work at Iron Mountain and Eagle Mountain plants. Pumping was again returned to a 4-pump operation by 11:05 December 24 and continued on that basis for the balance of the month. The District's system was out of parallel with Edison and Parker-Davis systems and Hoover powerplant for 41 hours 25 minutes, 8 hours 55 minutes, and 10 hours 20 minutes respectively. The District's share of Parker energy amounted to 25,081,881 kwhrs, which was used in the District's own system. Edison interchange energy delivered to the District amounted to 13,824,000 kwhrs. Peak deliveries to and from Edison were 138,000 kw and 125,000 kw respectively.

Weymouth Softening and Filtration Plant — Colorado River was softened from 309 ppm of hardness to 131 ppm at an average rate of 292 cfs. Daily rate of flow varied from a maximum of 324 cfs to a minmum of 259.

Construction — On installation of Pumping Units 7, 8 and 9, the contract is 52% complete; Pump Delivery Line No. 3, the contract is 91% complete.

Siphon work on main aqueduct (Earp to Whitewater)—Contract 669 was completed November 25, 1958, and Contract 672 is 100% complete.

The contract is 10% complete on Canals and Box Siphons—Schedules 11C, SD1C, SD2C, SD3C and SD4C.

Work on Schedules 77SC and 78SC (Lower Feeder) the contract is 90% complete; On the San Diego Aqueduct Schedules SD8P and SD9P the contract is 71% complete; Schedules SD10P and SD11SC, the contract is 85% complete.

Purchasing — December expenditures aggregated approximately $73,101.

Robert B. Diemer, District General Manager and Chief Engineer, second from right, and Richard B. (Dick) Ward, right, are presented with Life Memberships in the American Society of Civil Engineers by Julian Hinds, former District General Manager and Chief Engineer and himself a Life Member of the Society. Looking on at the left is Robert A. Skinner, Assistant Chief Engineer of the District and President of the Los Angeles Section of the Society.

Engineering Society Honors District Men

Robert B. Diemer, General Manager and Chief Engineer of the Metropolitan Water District, and Richard B. (Dick) Ward, District Engineer in charge of construction for the enlargement of Lake Mathews, were presented Life Memberships in the American Society of Civil Engineers at a meeting of the Los Angeles Section of the Society in Rodger Young Auditorium on January 14.

Robert A. Skinner, District Assistant Chief Engineer, who is President of the Los Angeles Section of the Society, presided at the meeting. Julian Hinds, former General Manager and Chief Engineer of the District, made the presentation of the Life Memberships. Mr. Hinds is a Life Member, former National Director, and was President of the Los Angeles Section of the Society in 1943.

Mr. Hinds recalled that he and Frank E. Weymouth, later to become the first General Manager and Chief Engineer of the District, were the ones who signed Mr. Diemer's application to join the Society more than 30 years ago when all three men were working with the J. G. White Engineering Corporation on a number of water projects in Mexico.

Mr. Weymouth, Mr. Hinds and Mr. Diemer all joined the Metropolitan Water District in 1929. Mr. Hinds became General Manager and Chief Engineer in 1941, following the death of Mr. Weymouth. In 1952 Mr. Diemer became General Manager and Chief Engineer of the District upon the retirement of Mr. Hinds.

Mr. Ward, who was with the District from 1931 to 1938, during the latter part of which period he was Resident Engineer on the construction of the initial development of Lake Mathews, returned to the District in 1956 to work on the enlargement of the reservoir. He, too, had known Mr. Hinds when both were in the U. S. Reclamation service many years ago.

$45 Million

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embarked on the current program to supply the needed water," Mr. Diemer declared.

During 1958, the installation of pumping unit number six at each of the five pumping plants along the Aqueduct was completed and the installation of pumping units seven, eight, and nine was about one-half completed. The construction of the third delivery line at each of the pumping plants is scheduled for completion early this year. The five pumping plants will be at their full ultimate capacity when all of this work is completed near the end of 1959, Mr. Diemer stated.

Along the main Aqueduct, a contract for the construction of the second barrel of 12 miles of 13-foot and 13-foot 6-inch diameter pipe siphons to carry the water over desert canyons and washes was completed at the end of 1958. The construction of 4.6 miles of canals and box siphons, and of 7 miles of 13-foot and 13-foot 6-inch diameter Aqueduct pipe siphons will be under way during all of 1959 and will be completed by the end of the year. The completion of this work will bring all main Aqueduct conduits to full, ultimate capacity, Mr. Diemer said.

He also pointed out that the construction of the northerly 34-mile portion of the Second San Diego Aqueduct, which takes off from the main Aqueduct near San Jacinto, was started in 1958 and will be completed in 1960. This portion of the San Diego line is being constructed by the District and the balance of the line by the San Diego County Water Authority.

On the distribution system, 33 miles of pipe lines were completed during 1958, and work was carried forward on the construction of 14 additional miles of pipe line. Bids will be taken in February for the enlargement of the terminal reservoir, Lake Mathews, increasing the capacity from 107,000 acre-feet to 182,000 acre-feet. The construction of additional pipe lines for the distribution system will also be started this year.

Officers Re-elected

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to the Divisional General Manager of the Western Division of the Tide Water Oil Company and a consulting engineer with that company and also for the Pacific Electric Railway Company.

Vice Chairman Butler represents the City of Compton on the Board, having served as a member since 1935. He is a contributing editor to the Herald-American newspapers in the southeast Los Angeles County area.

Secretary Heilbron is one of the directors representing the San Diego County Water Authority, and he is also Chairman of the Authority's Board of Directors. He was appointed to the District Board following the annexation of the Authority to the District in 1947. He is the owner of the Fred A. Heilbron Plumbing and Electrical Contractors.

Members and officers of the Board of Directors of the Metropolitan Water District serve without salary. The Board now consists of 37 members who represent the thirteen "original" member cities of the District, nine municipal water districts and one county water authority. Altogether there are 84 incorporated cities within the boundaries of the District, which covers an area of 3,290 square miles in the five counties of Los Angeles, Orange, Riverside, San Bernardino and San Diego.

Governor's Water Message Reviewed by District Board

A special meeting of the Board of Directors of the Metropolitan Water District was held on January 27 to discuss the contents of the water message Governor Edmund G. Brown recently delivered to a joint session of the State Legislature outlining his program for the development of California's water.

After a general discussion of the Governor's message, the Board issued the following statement:

"The full text of Governor Brown's water message was read to members of the Board of Directors of The Metropolitan Water District of Southern California at a special meeting held January 27. There was a general and preliminary discussion of the various elements contained in the message.

"The Board is giving careful and thorough study to the program set forth by Governor Brown.

"The Board was impressed with the scope and vigor of the water program presented in the message. It is a timely message dealing with a vital subject. The Governor is to be highly commended for the steps he has taken to bring the State's water program to the attention of the Legislature in the early days of the Legislative session.

"We desire to give our attention particularly to those sections of the message dealing with financing and the Constitutional Amendment. We wish to work in close concert with the Governor in connection with the matters of policy contained in the water message. We are anxious to work in harmony with the Governor, the Legislature and the many interested agencies in the State to the end that the water needs of all the people, north and south, be fairly and adequately met.

"The Board deeply appreciates the courtesy extended by Governor Brown to representatives of the District in a recent conference with him. We are anxious to communicate our views to the Governor at an early date and we hope that we may have the benefit of further consultation with him."

Shown above is a dragline excavating trench on the Second San Diego Aqueduct prior to the installation of 75-inch inside diameter precast concrete pipe. This work is located about four miles north of Temecula in Riverside County. The contractor on this section of the line is Ukropina, Polich and Kral and the contract has a completion date of June 30, 1959. All work on the Second San Diego Aqueduct being performed by the Metropolitan Water District is scheduled for completion by March 31, 1960.

Electric Club Address

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(1) Installation of six additional pumps in each of the five pumping plants to bring the number of pumps in each plant to a total of nine. Units 4 and 5, completed in 1957, increased the pumping capacity from 600 to 1000 cubic feet per second, and the completion of the nine units will increase the installed capacity to 1800 cubic feet per second.

(2) Construction of 22 miles of siphons on the aqueduct to increase the capacity from 800 to 1800 cubic feet per second.

(3) Construction of more than 100 miles of pipe lines and tunnels varying from 36 inches to 120 inches in diameter to expand the aqueduct's distribution facilities for delivery of water to the member agencies.

(4) Construction of the Garvey Reservoir, capacity—1500 acre-feet, on the distribution system.

(5) The enlargement of Lake Mathews, the terminal reservoir on the aqueduct, from 107,000 to 182,000 acre-feet.

(6) Construction of additional filtering facilities at the Frank E. Weymouth Softening and Filtration Plant near La Verne.

NEWS FROM FIELD AND OFFICE

Following is the Financial Statement for 1958 as issued this month by the M. W. D. Federal Credit Union.

TOTAL MEMBERSHIP	318
ASSETS:	
Outstanding Assets (174)	$ 79,720.58
Cash on Hand	27,482.19
Furniture	59.70
TOTAL ASSETS	$107,262.47
LIABILITIES:	
Shares	$ 98,683.17
Regular Reserve	962.50
Undivided Earnings	1,127.46
Income 1958	6,489.34
TOTAL LIABILITIES	$107,262.47

1958 DIVIDEND DECLARED 6%.

* * *

Sewell J. King, Lineman on the Transmission crew, who is Commissioner of the Colorado River Boy Scout District, was presented with the coveted Silver Beaver Award by the Arrowhead Area Council of the Boy Scouts of America at a recognition dinner in San Bernardino in December. This is the highest award given by an area council in scouting to an adult worker for distinguished service to boyhood. Sewell has been active in Parker area scouting since 1951.

* * *

Richard E. Godfrey, Utility Man on Survey, and his wife, Doris, welcomed twin girls on January 3 at the Riverside Osteopathic Hospital. The girls weighed 4 pounds, 13 ounces and 4 pounds, 5½ ounces, and have been named Phyllis Mary and Catherine Elizabeth.

* * *

The annual Christmas party at Gene Village was held in the Recreation Hall on December 21. Bruce Carnahan was Master of Ceremonies and Joan Whaley was General Party Chairman. Winners of the contest for outstanding home Christmas decorations were announced at the party. First prize went to Mr. and Mrs. Bryce Shields; Mr. and Mrs. Harry Swango took second prize and Mr. and Mrs. Lyle Murphy won the third prize.

An outstanding part of the program was the presentation of "'Twas the Night Before Christmas" in tableau, with group singing by the children, directed by Joan Whaley. The musician was Betty Bremer. Group carol singing was followed by the arrival of Santa with presents and candy for the children. Refreshments of coffee, punch and cookies brought an end to a very enjoyable evening.

Homer R. (Jimmy) Campbell and his wife, Eva, are pictured at the time of Jimmy's retirement from the District in November. Jimmy had been Station Chief at Gene Pumping Plant.

A retirement party in honor of Homer R. (Jimmy) Campbell, Station Chief at Gene Pumping Plant, and his wife, Eva, was held at Gene Village on November 9. Approximately 150 people attended the gala event which was arranged by Group 5 of the Employees Asosciation. Walter Smith was General Chairman and Frank Fettick served at Toastmaster.

An excellent ham dinner was served, followed by a beautiful cake decorated with a miniature pumping plant. Jimmy and Eva were presented with a television set by their many District friends and the evening concluded with square dancing in the Recreation Hall.

The District Christmas party for field and office employees, which was held at the Pomona Valley Country Club on December 19, was attended by 270 District employees and their families and friends and was described as one of the best parties the District has ever held.

Dinner dancing followed an excellent buffet dinner with both turkey and ham as the main course. Credit for the success of the party goes to the hard working committees headed by Dale Flora, Dale Batchelor, Marion Shafer and Eugene Bowers.

In addition to the dinner and dancing, a number of drawings for prizes were held during the evening. Drawings for the main prizes were conducted by Eugene Bowers, who served as Master of Ceremonies, Dale Batchelor and Grace Wyatt. Winners were Oliver J. Thompson, Station Chief at Eagle Mountain Pumping Plant, Irving Flavin, former District Inspector, and David Creighton, Engineering Aide on Survey.

* * *

Employees and families at Iron Mountain Pumping Plant held their Christmas Party in the Recreation Hall on December 18. A pot luck dinner was served and gifts were presented to all of the children. Mrs. W. T. Griffey, Mrs. Ralph Stewart and Fred Rush, Jr., were on the committee that handled the arrangements.

The fascinated group of youngsters and grownups alike are watching the program put on at Gene Village at the annual Christmas Party which was held in the Recreation Hall on December 21. The party was attended by nearly everyone at Gene Village as well as relatives and friends and was proclaimed a huge success by all. The program included a presentation of " 'Twas the Night Before Christmas."

NEWS FROM FIELD AND OFFICE

A number of women employees from the Los Angeles office made a tour of some of the Colorado River Aqueduct facilities on the week end of January 9-11. The tour was made to better acquaint the ladies with District operations and functions.

Those making the trip were: Ethel Lockhart, Agnes Dunning, Nobu Masuda, Toni Brentwood, Estelle McGee, Laura Janssen, Evelyn Lauricella, Frieda Bonelli, Mary Gates, Frances Gardner, Anne Vinci, Gladys Chamberlain, Lorrayne Doyle, Drue Brandenburg, Vivian Ingraham, Freda Dickerson, Wilma Flynn, Edith Mallery, Grace Wyatt, Erna Aldinger, Betty Killion, Fannie Mae Fink, Darleen Campbell, Cynthia Lutchka, Viola Crutcher, Dorothy Goddard, and Margaret Hernandez.

On Friday night the visiting ladies were entertained at the Recreation Hall at Gene Village and on Saturday afternoon Mrs. Robert E. Whaley was hostess at a tea in her home. Co-hostesses were Mrs. Bruce Carnahan, Mrs. Ben Alexander, Mrs. A. E. Graham, and Mrs. James Yaklowich.

Others attending the tea included: Dorothy King, Donnaly Morris, Mary Nell Shields, Viola Wenzel, Alta Moore, Ila Mae Dockery, Alma Parker, Dorothy Ayers, Edna "Red" Robbins, Janet Murphy, Mary Helen Clark, Nancy Crawford, Lilly Parsons, Theda Rounds, Ruth Moore, Gorda Swango, Nellie Hedrick, Jean Ripberger, Ardys Stewart, Clorine Rush, Gladys Weidel, Ruby Wood, Betty Hall, Jeri Holt, Dorothy Hines, Jackie Zans and Betty Deal.

* * *

Keith Goodwin, Station Electrician at the Softening Plant, and his wife, Doris, welcomed a new leading lady on November 20 when Shirley Ann arrived at San Antonio Hospital weighing 8 pounds.

Fred and Mrs. Skenandore are the proud parents of a baby girl born January 6 in the Wickenburg Hospital, the first birth there this year. The young lady weighed 5 pounds 13 ounces and has been named Cheryl Annette. Fred is a Junior Engineering Aide.

* * *

Hubbard L. Allen, Jr., Utility Man at Gene Pumping Plant, and Miss Judith P. Martin of Parker, Arizona, were united in marriage on January 13 in the Community Methodist Church in Parker. The Reverend Sam Sallie officiated at the informal wedding ceremonies. The former Miss Martin is the daughter of Mr. and Mrs. John P. Martin of Parker, and Hubbard is the son of Mr. and Mrs. Hubbard L. Allen of Parker Dam. Mr. Martin is a Project Manager for the E. V. Lane Corporation.

Shown above are a number of Los Angeles office women employees on a recent tour of the Colorado River Aqueduct facilities. In the background are the three pump delivery lines at Gene Pumping Plant. Left to right, kneeling are: Cynthia Lutchka, Vivian Ingraham, Grace Wyatt, Betty Killion, Nobu Masuda, Toni Brentwood, Ethel Lockhart, Frances Gardner, and Lorrayne Doyle. Left to right, standing, are: Wilma Flynn (Colorado River Assn.), Fannie Mae Fink, Darleen Campbell, Viola Crutcher, Agnes Dunning, Freda Dickerson, Margaret Hernandez, Gladys Chamberlin, Laura Janssen, Evelyn Lauricella, Dorothy Goddard, Erna Aldinger, Frieda Bonelli, Edith Mallery, Mary Gates, and Anne Vinci.